```
 FILE 'MEDLINE' ENTERED AT 14:27:10 ON 08 DEC 2005
L1            39 SEA NOS2A OR (NITRIC (A) OXIDE (A) SYNTHASE(A)2A) OR NOS2B OR
                 (NITRIC (A) OXIDE (A) SYNTHASE (A) 2B) OR NOS2C OR (NITRIC (A)
                 OXIDE (A) SYNTHASE (A) 2C)
L2           399 SEA INTRON (A) 7 OR (INTRON7)
L3             0 SEA L1 AND L2
L4          7648 SEA INOS
L5             1 SEA L2 AND L4
                 D IBIBAB
L6             0 SEA BIOSIS CAPLUS

     FILE 'CAPLUS' ENTERED AT 14:39:12 ON 08 DEC 2005
L7            32 SEA L1 AND L4
L8          8619 SEA L1 OR L4
L9             1 SEA L2 AND L8
                 D IBIB
L10          124 SEA BIOSIS

     FILE 'BIOSIS' ENTERED AT 14:45:15 ON 08 DEC 2005
L11            1 SEA L8 AND L9


     FILE HOME

     FILE MEDLINE
      FILE LAST UPDATED: 6 DEC 2005 (20051206/UP).  FILE COVERS 1950 TO DATE.

      On December 19, 2004, the 2005 MeSH terms were loaded.

      The MEDLINE reload for 2005 is now available.  For details enter HELP
      RLOAD at an arrow promt (=>).  See also:

         http://www.nlm.nih.gov/mesh/
         http://www.nlm.nih.gov/pubs/techbull/nd04/nd04_mesh.html

      OLDMEDLINE now back to 1950.

      MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the
      MeSH 2005 vocabulary.

      This file contains CAS Registry Numbers for easy and accurate
      substance identification.

     FILE CAPLUS

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     FILE COVERS 1907 - 8 Dec 2005  VOL 143 ISS 24
     FILE LAST UPDATED: 7 Dec 2005  (20051207/ED)

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     FILE BIOSIS
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CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT
FROM JANUARY 1969 TO DATE.

RECORDS LAST ADDED: 7 December 2005 (20051207/ED)

=>

3/7/32 (Item 32 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)

0013163064 BIOSIS NO.: 200100334903
Linkage of the human inducible nitric oxide synthase gene to type 1 diabetes
AUTHOR: Johannesen Jesper; Pie Angeles; Pociot Flemming; Kristiansen Ole Peter; Karlsen Allan Ertmann; Nerup Jorn (Reprint)
AUTHOR ADDRESS: Steno Diabetes Center, Niels Steensensvej 2, DK-2820, Gentofte, Denmark**Denmark
JOURNAL: Journal of Clinical Endocrinology and Metabolism 86 (6): p 2792-2796 June, 2001 2001
MEDIUM: print
ISSN: 0021-972X
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

ABSTRACT: Exposure of human pancreatic islets to a mixture of cytokines induces expression of the inducible nitric oxide synthase (**iNOS**), impairs beta-cell function, and induces apoptosis. We performed a mutational scanning of all 27 exons of the human **NOS2** gene and linkage transmission disequilibrium testing of identified **NOS2** polymorphisms in a Danish nationwide type 1 diabetes mellitus (IDDM) family collection. Mutational screening was performed using ***PCR*** -amplified exons, followed by single stranded conformation **polymorphism** and verification of potential polymorphisms by sequencing. The transmission disequilibrium test was performed in an IDDM family material comprising 257 Danish families; 154 families were affected sibling pair families, and 103 families were simplex families. In total, 10 polymorphisms were identified in 8 exons, of which 4 were tested in the family material. A C/T single nucleotide ***polymorphism*** in exon 16 resulting in an amino acid substitution, Ser608Leu, showed linkage to IDDM in human leukocyte antigen DR3/4-positive affected offspring (P=0.008; corrected P=0.024). No other distorted transmission patterns were found for any other tested single nucleotide **polymorphism** or constructed haplotypes with the exception of those including data from exon 16. In conclusion, linkage of the human **NOS2** gene to IDDM in a subset of patients supports a pathogenic role of nitric oxide in human IDDM.

3/7/35 (Item 35 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)

0012271924 BIOSIS NO.: 199900531584
Nitric oxide synthase-2 (**NOS2**) promoter **polymorphism** in African-American subjects associates with systemic lupus erythematosus (SLE)
AUTHOR: Hill Bruce S (Reprint); Oates James C (Reprint); Molano Ivan D (Reprint); Gilkeson Gary S (Reprint)
AUTHOR ADDRESS: Charleston, SC, USA**USA
JOURNAL: Arthritis and Rheumatism 42 (9 SUPPL.): pS308 Sept., 1999 1999
MEDIUM: print
CONFERENCE/MEETING: 63rd Annual Scientific Meeting of the American College of Rheumatology and the 34th Annual Scientific Meeting of the Association of Rheumatology Health Professionals Boston, Massachusetts, USA November 13-17, 1999; 19991113
ISSN: 0004-3591
DOCUMENT TYPE: Meeting; Meeting Abstract; Meeting Poster

RECORD TYPE: Citation
LANGUAGE: English

3/7/61 (Item 3 from file: 144)
DIALOG(R)File 144:Pascal

12780377 PASCAL No.: 96-0499556
PCR-based gene targeting of the inducible nitric oxide synthase (**NOS2**) locus in murine ES cells, a new and more cost-effective approach
RANDOLPH D A; VERBSKY J W; YANG L; FANG Y; HAKEM R; FIELDS L E
Departments of Medicine and Pathology, Divisions of Cardiology and Biology and Biomedical Sciences, Washington University School of Medicine, St. Louis, MO 63110-1093, United States
Journal: Transgenic research, 1996, 5 (6) 413-420
ISSN: 0962-8819 Availability: INIST-26051; 354000066242420060
No. of Refs.: 1 p.1/4
Document Type: P (Serial) ; A (Analytic)
Country of Publication: United Kingdom
Language: English

3/7/74 (Item 5 from file: 357)
DIALOG(R)File 357:Derwent Biotech Res.

0247959 DBR Accession No.: 2000-02449 PATENT
Novel method of diagnosis of disease or predisposition to disease such as Syndrome-X by detection of a four base insertion **polymorphism** - in the nitric-oxide-synthase gene for hypertension diagnosis using DNA **primer**
AUTHOR: Griffiths L R
CORPORATE SOURCE: Cambridge, UK.
PATENT ASSIGNEE: Gemini-Res. 1999
PATENT NUMBER: WO 9958715 PATENT DATE: 19991118 WPI ACCESSION NO.: 2000-039117 (2003)
PRIORITY APPLIC. NO.: GB 9810085 APPLIC. DATE: 19980511
NATIONAL APPLIC. NO.: WO 99GB1450 APPLIC. DATE: 19990507
LANGUAGE: English
ABSTRACT: Diagnosis of diseases such as hypertension and Syndrome-X by detection of a 4 bp insertion in the nitric-oxide-synthase (EC-1.14.13.39, NOS) gene within the promoter region is new. Also claimed are: a method of diagnosis and treatment of hypertension; a method of predicting response to hypertension therapy; a method of diagnosing Syndrome-X or hypertension or predisposition to Syndrome-X or hypertension; a method of locating a further **polymorphism** correlated with a known **polymorphism** in or near the promoter region of an **iNOS** gene; and a kit for the diagnosis of Syndrome-X or predisposition to Syndrome-X containing one or more DNA primers. The method can be use to diagnosis and identify individuals having a predisposition or susceptibility to essential hypertension and also to the group of conditions that contribute to Syndrome-X as well as obesity, non-insulin dependent diabetes, atherosclerosis, dyslipaemia, vascular and coronary heart disease. (22pp)

3/7/81 (Item 7 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)

131347564 CA: 131(26)347564f PATENT
Polymorphism in a nitric oxide synthase gene and use in diagnosis of Syndrome X or hypertension
INVENTOR(AUTHOR): Griffiths, Lynette Robyn
LOCATION: UK,
ASSIGNEE: Gemini Research Limited
PATENT: PCT International ; WO 9958715 A1 DATE: 19991118
APPLICATION: WO 99GB1450 (19990507) *GB 9810085 (19980511)
PAGES: 24 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: C12Q-001/68A
DESIGNATED COUNTRIES: AE; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; CA; CH; CN; CU; CZ; DE; DK; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MD; MG; MK; MN; MW; MX; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL; TJ; TM; TR; TT; UA; UG; US; UZ; VN; YU; ZA; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM
DESIGNATED REGIONAL: GH; GM; KE; LS; MW; SD; SL; SZ; UG; ZW; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML; MR; NE; SN; TD; TG
SECTION:
CA203003 Biochemical Genetics
CA214XXX Mammalian Pathological Biochemistry
IDENTIFIERS: polymorphism nitric oxide synthase gene diagnosis Syndrome X hypertension, NOS2A promoter polymorphism PCR diagnosis Syndrome X hypertension
DESCRIPTORS:
Heart,disease...
angina pectoris, syndrome X; polymorphism in nitric oxide synthase gene and use in diagnosis of Syndrome X or hypertension
Test kits...
comprising set of reference markers, reference gel, and reference chart; polymorphism
in nitric oxide synthase gene and use in diagnosis of Syndrome X or hypertension
Diagnosis...
genetic; polymorphism in nitric oxide synthase gene and use in diagnosis of Syndrome X or hypertension
Chromosome...
human 17, 17cen-q11.2, gene NIS2A on, Syndrome X and; polymorphism in nitric oxide synthase gene and use in diagnosis of Syndrome X or hypertension
Repetitive DNA...
in NOS2A promoter, 4 base insertion in; polymorphism in nitric oxide synthase gene and use in diagnosis of Syndrome X or hypertension
Mutation...
insertion, four base; polymorphism in nitric oxide synthase gene and use in diagnosis of Syndrome X or hypertension
Gene,animal...
NOS2A, inducible; polymorphism in nitric oxide synthase gene and use in diagnosis of Syndrome X or hypertension
Promoter(genetic element)...
NOS2A, repeat polymorphism in; polymorphism in nitric oxide synthase gene and use in diagnosis of Syndrome X or hypertension
Blood analysis... Genetic methods... Genetic polymorphism...
Genotyping(method)... Hypertension... PCR(polymerase chain reaction)...
Primers(nucleic acid)... Susceptibility(genetic)...
polymorphism in nitric oxide synthase gene and use in diagnosis of Syndrome X or hypertension
Genetic element...
tsp (transcription start point), insertion located between positions -891 and -575 5' to; polymorphism in nitric oxide synthase gene and use in diagnosis of Syndrome X or hypertension
CAS REGISTRY NUMBERS:
125978-95-2 NOS gene for; polymorphism in nitric oxide synthase gene and

use in diagnosis of Syndrome X or hypertension
250381-84-1 250381-85-2 NOS2A promoter primer; polymorphism in nitric oxide synthase gene and use in diagnosis of Syndrome X or hypertension
250381-83-0 nucleotide sequence; polymorphism in nitric oxide synthase gene and use in diagnosis of Syndrome X or hypertension

3/7/82 (Item 8 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)

131318344 CA: 131(24)318344d JOURNAL
Quantification of iNOS mRNA with Reverse Transcription Polymerase Chain Reaction Directly from Cell Lysates
AUTHOR(S): Han, Bing; DuBois, Debra C.; Boje, Kathleen M. K.; Free, Stephen J.; Almon, Richard R.
LOCATION: Department of Biological Sciences, State University of New York at Buffalo, Amherst, NY, 14260, USA
JOURNAL: Nitric Oxide DATE: 1999 VOLUME: 3 NUMBER: 4 PAGES: 281-291
CODEN: NIOXF5 ISSN: 1089-8603 LANGUAGE: English PUBLISHER: Academic Press
SECTION:
CA203001 Biochemical Genetics
CA209XXX Biochemical Methods
CA213XXX Mammalian Biochemistry
IDENTIFIERS: quant iNOS mRNA RTPCR cell lysate
DESCRIPTORS:
Mutation...
deletion, if deletion construct within 10% of wild type, the rtPCR efficiencies are identical; quantification of iNOS mRNA with RT-PCR directly from cell lysates
Inflammation...
gene expression during; quantification of iNOS mRNA with RT-PCR directly from cell lysates
Animal cell line...
J774.2; quantification of iNOS mRNA with RT-PCR directly from cell lysates
mRNA...
quantification of iNOS mRNA with RT-PCR directly from cell lysates
Genetic methods...
single step phenol/chloroform/ether extraction of mRNA; quantification of iNOS mRNA with RT-PCR directly from cell lysates
CAS REGISTRY NUMBERS:
125978-95-2 inducible; quantification of iNOS mRNA with RT-PCR directly from cell lysates
9001-99-4 removal, effects of the extraction on iNOS mRNA recovery and cytosolic RNase removal; quantification of iNOS mRNA with RT-PCR directly from cell lysates
?